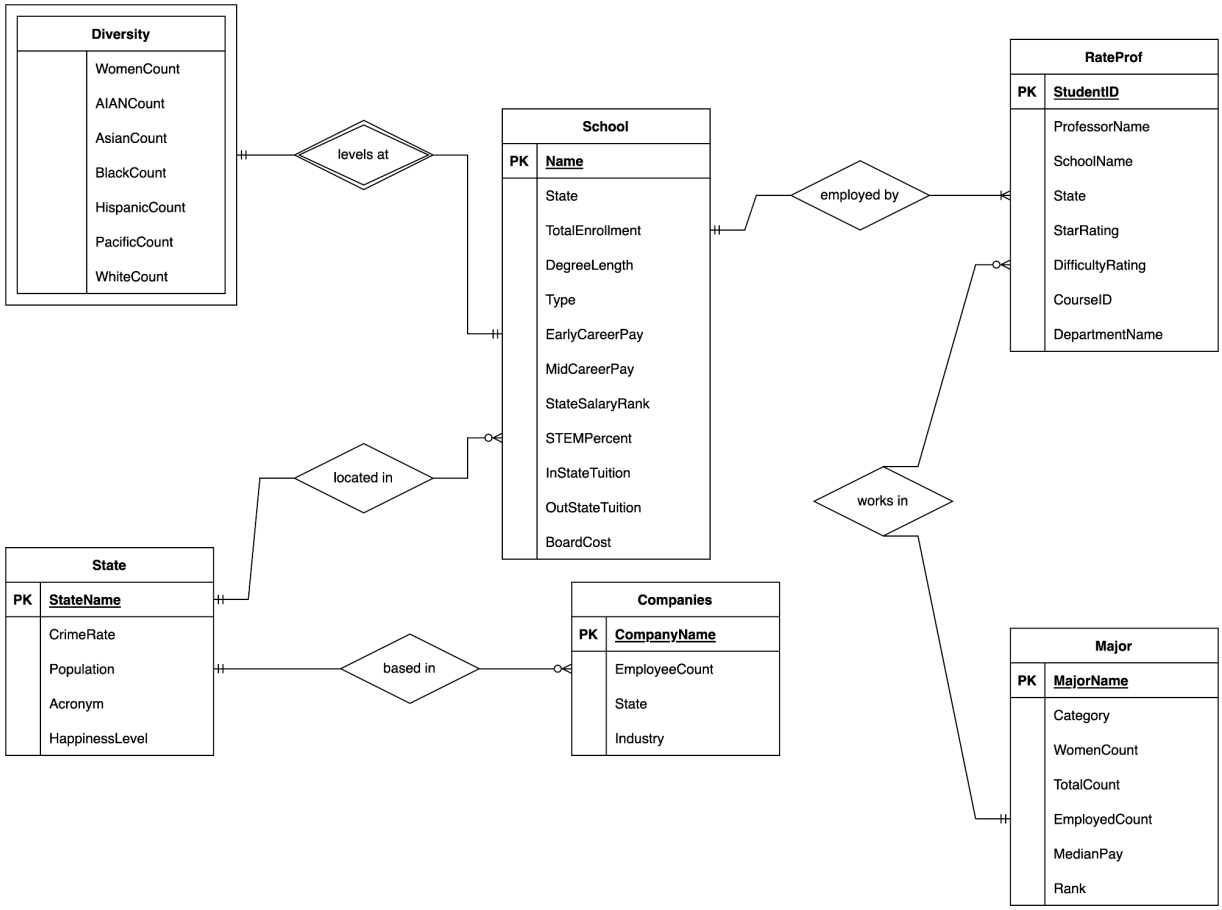

Description of Relationships:

Levels At: Is a 1-to-1 relationship. We assume that the diversity count at each school should be one unique set of values. So a school has exactly 1 set of diversity statistics. And each row of diversity statistics maps to 1 specific school. Diversity is a weak entity that is identifiable by the school it pertains to.

Employed By: Is a 1-to-many relationship. We assume that each RateMyProfessor rating is relevant to a professor employed by exactly 1 school. Each school can employ several professors in the RateMyProfessor table, but must have at least one.

Works In: Is a 1-to-many relationship. We assume that each RateMyProfessor rating is relevant to a professor in exactly 1 major/department. However, each existing major may have none or have several ratings of professors teaching in that major.

Located In: Is a 1-to-many relationship. We assume that each school is located in exactly 1 state. We also assume that each state may have no schools in it, or may have several schools.

Based In: Is a 1-to-many relationship. We assume that each company is located in one state. We also assume that each state can have multiple companies based in them.

Relational Schema:

School(
    Name: VARCHAR(255) [PK],
    State: CHAR(20),
    TotalEnrollment: INTEGER,
    DegreeLength: INTEGER,
    Type: CHAR(20),
    EarlyCareerPay: REAL,
    MidCareerPay: REAL,
    StateSalaryRank: INTEGER,
    STEMPercent: REAL,
    InStateTuition: REAL,
    OutStateTuition: REAL,
    BoardCost: REAL
)

Diversity(
    School_diversity_fk: VARCHAR(255) [FK to School.Name],
    WomenCount: INTEGER,
    AIANCount: INTEGER,
    AsianCount: INTEGER,
    BlackCount: INTEGER,
    HispanicCount: INTEGER,
    PacificCount: INTEGER,
    WhiteCount: INTEGER
)

RateProf(
    StudentID: INTEGER [PK],
    ProfessorName: VARCHAR(255),
    SchoolName: VARCHAR(255),
    State: VARCHAR(255),
    StarRating: INTEGER,
    DifficultyRating: INTEGER,
    CourseID: REAL,
    DepartmentName: VARCHAR(255)
)

Major(
    MajorName: VARCHAR(255) [PK],
    Category: VARCHAR(255),

WomenCount: INTEGER,
TotalCount: INTEGER,
EmployedCount: INTEGER,
MedianPay: REAL,
Rank: INTEGER
)

State(
StateName: VARCHAR(255) [PK],
CrimeRate: REAL,
Population: INTEGER,
Acronym: CHAR(2),
HappinessLevel: INTEGER
)

Companies(
CompanyName: VARCHAR(255) [PK],
EmployeeCount: INTEGER,
State: VARCHAR(255),
Industry: VARCHAR(255)
)